

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458563

Luminaire Tested: **GALN-SA1B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

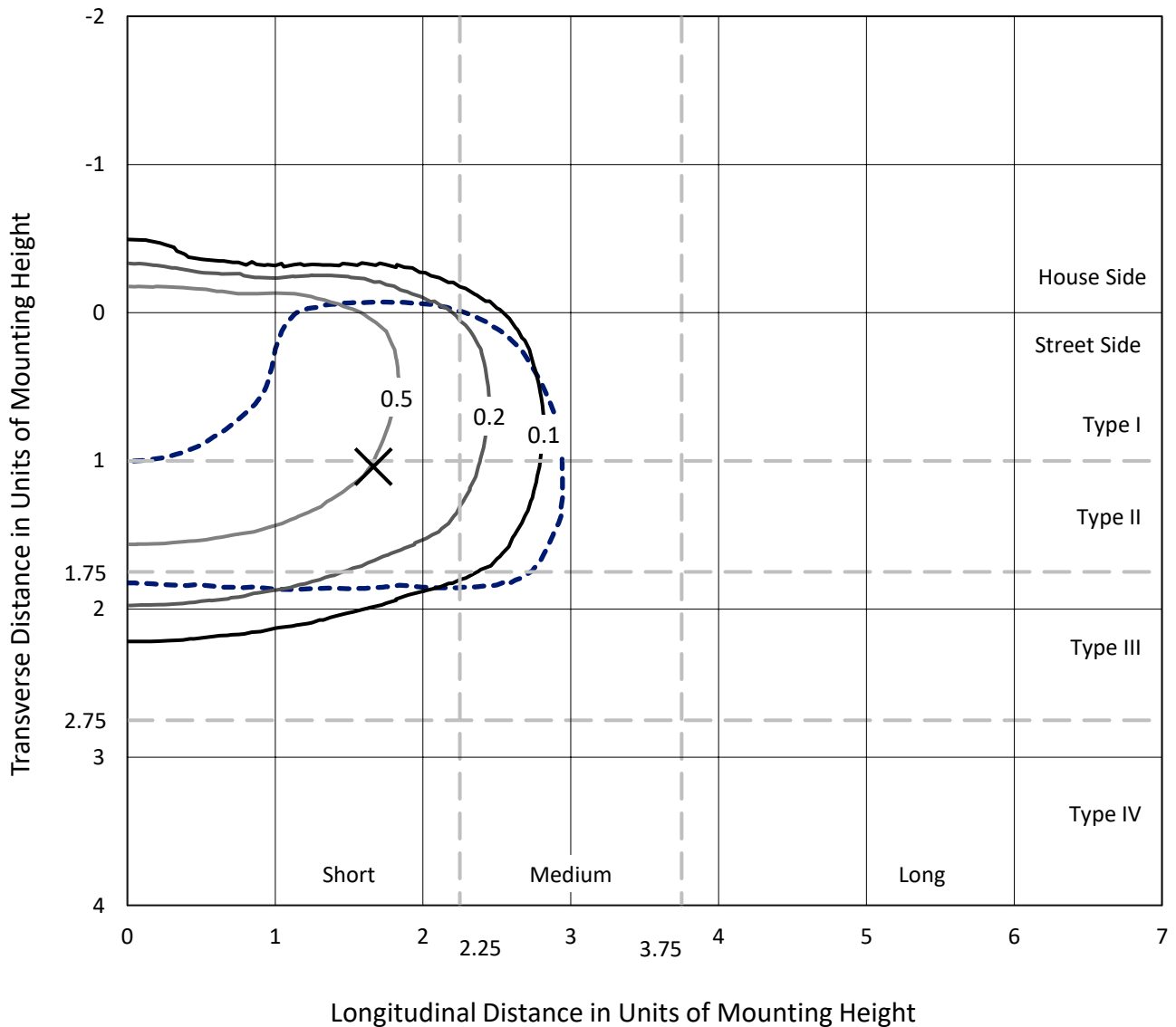
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

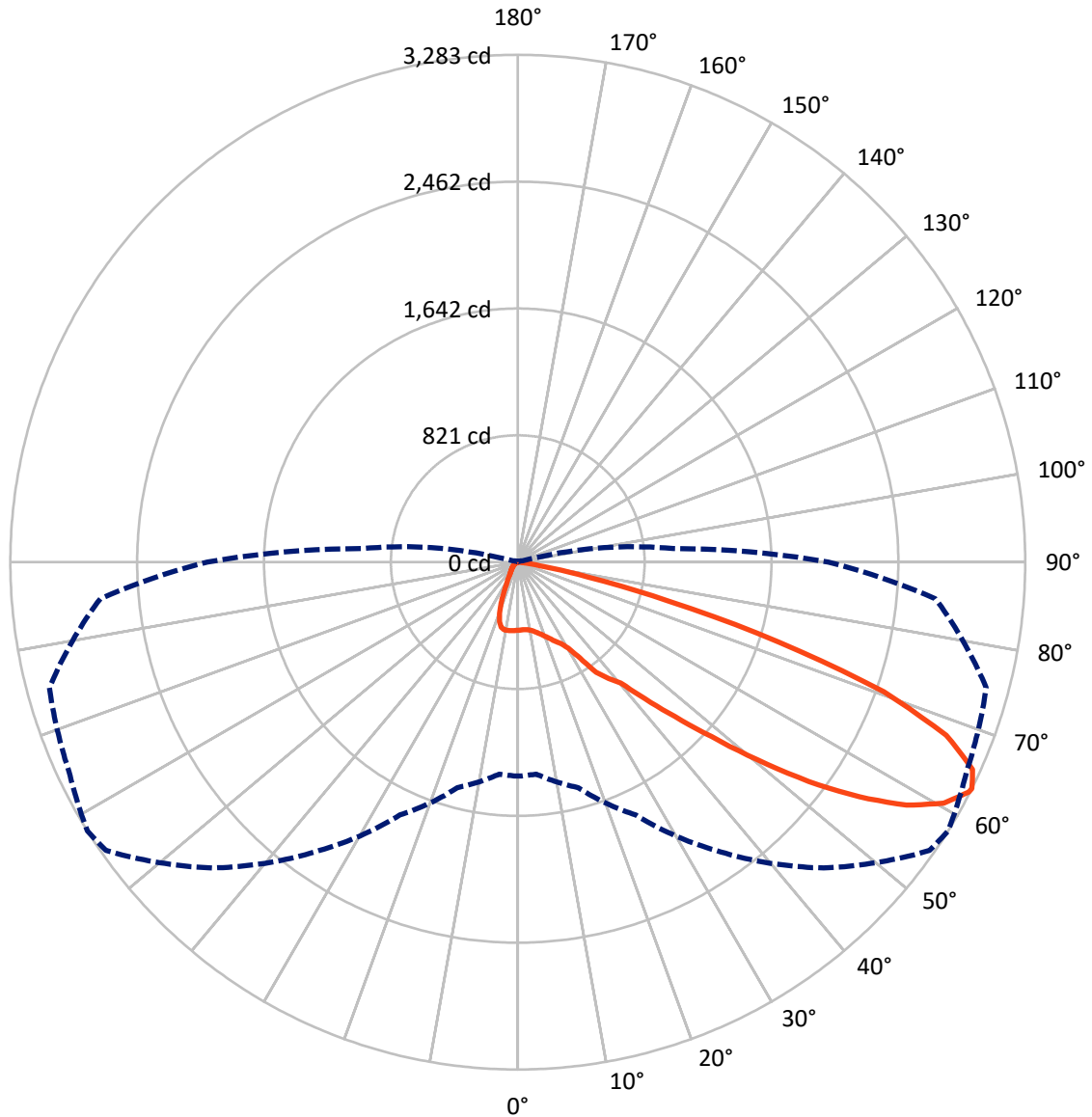
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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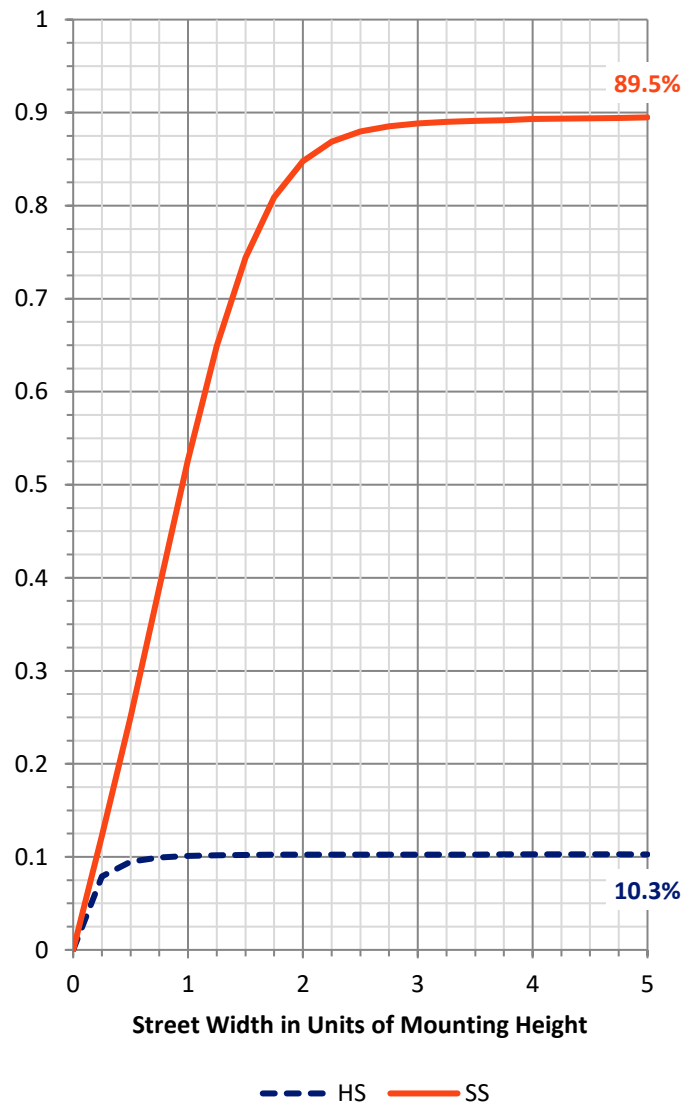
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.8	0.0	407.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3530.2	0.0	3530.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	3938.0	0.0	3938.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.0
10°-20°	112.4	2.9
20°-30°	195.1	5.0
30°-40°	358.5	9.1
40°-50°	674.9	17.1
50°-60°	1154.3	29.3
60°-70°	1105.3	28.1
70°-80°	281.8	7.2
80°-90°	14.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3938.0	100.0
0°-180°	3938.0	100.0



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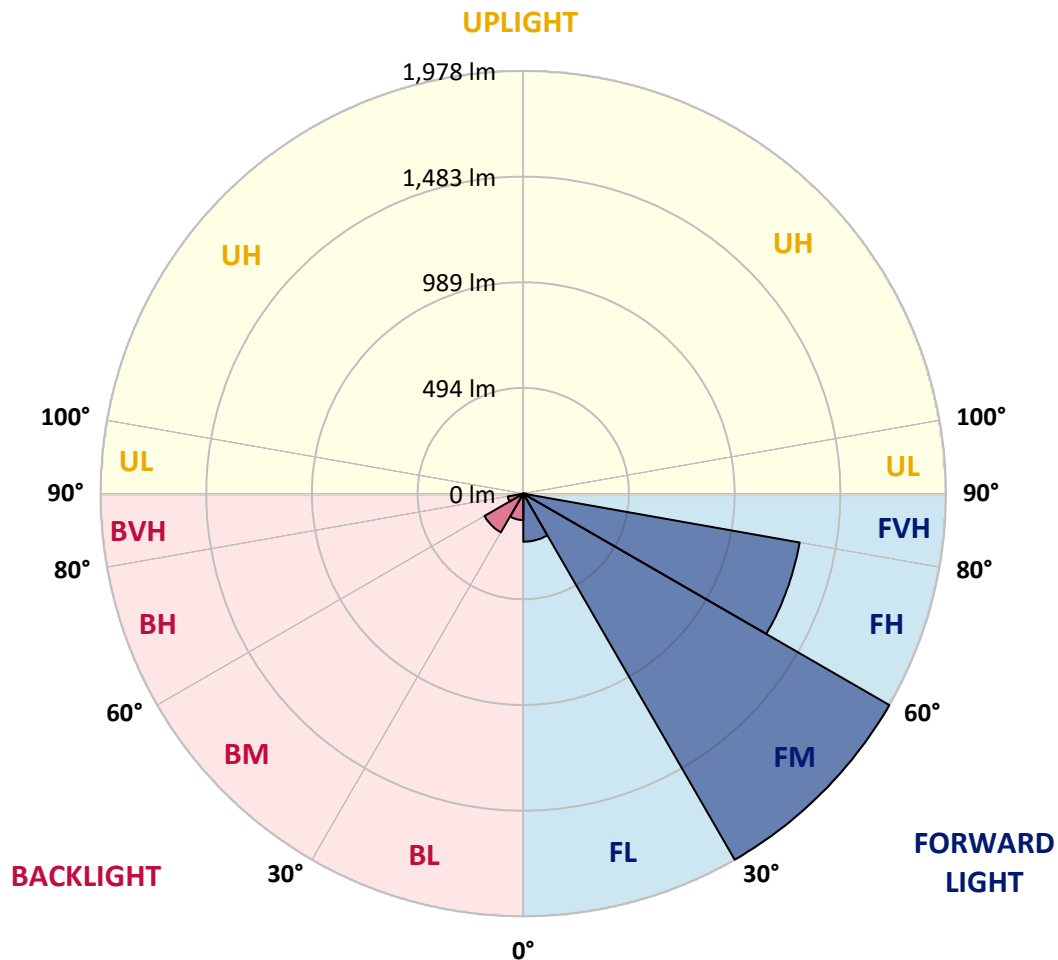
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.1	5.7			
FM (30°-60°)	1978.0	50.2			
FH (60°-80°)	1313.3	33.3			G1/1800
FVH (80°-90°)	13.9	0.4			G1/100
BL (0°-30°)	123.7	3.1	B1/500		
BM (30°-60°)	209.7	5.3	B0/220		
BH (60°-80°)	73.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	429.9	431.4	432.9	433.5	435.5	437.6	439.1	438.8	441.2	442.4	442.4
5°	412.7	412.7	416.6	420.1	426.1	432.0	437.6	438.8	443.2	447.4	448.9
7.5°	398.2	399.1	402.0	408.6	416.6	426.9	438.2	440.9	448.6	457.8	461.6
10°	391.4	392.0	395.8	402.6	412.7	426.9	442.7	447.7	459.6	474.1	479.4
12.5°	389.9	390.8	394.6	402.3	413.9	431.1	452.4	457.8	475.0	493.6	501.7
15°	392.5	393.1	397.0	405.3	418.0	438.5	465.5	472.9	493.4	515.0	525.4
17.5°	402.0	401.4	404.1	410.9	425.2	447.7	481.2	490.1	514.1	543.8	550.6
20°	442.4	438.5	436.1	430.2	435.8	460.7	500.2	513.2	542.9	573.1	577.9
22.5°	529.2	520.6	503.7	480.6	462.8	478.5	523.0	538.1	576.4	606.0	606.0
25°	639.8	628.8	611.9	561.5	518.0	507.9	548.8	567.8	612.8	642.8	633.0
27.5°	778.3	769.7	736.8	678.1	611.4	559.2	578.7	596.2	645.2	681.3	660.9
30°	890.9	886.8	859.8	807.3	733.8	657.6	634.5	646.0	688.1	729.9	708.9
32.5°	986.1	986.1	958.5	909.6	840.8	773.2	729.1	737.4	777.7	826.0	786.9
35°	1090.8	1087.2	1065.0	1018.4	941.3	881.7	863.7	874.9	911.4	947.3	850.9
37.5°	1200.8	1199.6	1176.5	1131.4	1068.5	993.5	951.1	954.1	972.8	994.7	925.9
40°	1320.3	1322.0	1291.8	1263.9	1204.6	1127.8	1046.6	1027.9	1045.4	1107.4	1064.4
42.5°	1461.4	1457.2	1444.2	1406.2	1358.5	1312.5	1215.0	1208.2	1223.6	1290.0	1243.5
45°	1625.3	1631.3	1608.7	1587.7	1555.7	1517.4	1435.9	1424.0	1440.9	1544.1	1478.0
47.5°	1789.6	1784.0	1798.5	1794.6	1811.8	1783.4	1711.3	1687.0	1727.6	1825.5	1728.2
50°	1914.7	1920.9	1951.2	1995.3	2069.2	2085.2	2016.1	2007.8	2025.9	2088.7	1952.1
52.5°	1995.9	2016.7	2064.1	2177.7	2310.8	2414.3	2361.8	2357.4	2349.9	2366.8	2166.1
55°	2049.0	2070.1	2132.0	2299.2	2528.4	2696.5	2699.2	2680.2	2631.3	2619.2	2366.3
57.5°	2016.4	2020.6	2108.9	2332.5	2649.1	2897.9	2985.0	2966.0	2875.6	2829.7	2543.0
60°	1812.4	1821.0	1944.1	2206.7	2596.6	2963.7	3174.5	3165.9	3066.8	3015.0	2680.5
62.5°	1451.0	1475.9	1602.5	1895.4	2352.6	2852.8	3251.3	3275.6	3198.5	3127.0	2723.8
63°	1384.6	1376.6	1510.3	1804.7	2288.0	2797.9	3252.4	3283.3	3204.4	3137.7	2712.0
65°	1025.0	1049.0	1135.8	1423.1	1904.0	2542.7	3179.2	3233.8	3182.5	3090.6	2580.6
67.5°	575.5	574.3	670.4	931.3	1332.7	1994.5	2874.7	2990.1	2979.4	2773.3	2139.1
70°	281.7	286.1	325.5	482.7	772.9	1376.0	2388.8	2513.3	2517.2	2178.3	1479.2
72.5°	127.5	129.6	157.7	235.1	397.3	732.6	1646.1	1765.0	1743.0	1388.1	816.8
75°	67.3	71.7	86.9	118.3	191.5	302.1	895.4	1010.4	964.5	634.2	300.6
77.5°	49.8	51.3	59.0	75.3	102.6	117.7	386.3	459.6	430.5	229.5	99.6
80°	36.5	37.7	43.9	53.4	64.6	59.9	145.6	166.9	149.7	78.0	30.5
82.5°	22.2	22.5	32.0	39.7	40.6	33.5	48.0	51.6	54.0	43.9	16.6
85°	8.0	10.1	21.6	28.8	24.0	16.9	20.2	22.2	24.3	27.9	9.8
87.5°	0.9	1.2	10.4	13.9	6.8	6.2	7.4	8.3	8.9	10.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	443.5	444.7	443.8	442.4	442.1	441.2	439.4	439.4	439.4	440.0	439.4
5°	450.1	451.0	448.9	445.9	442.7	438.5	434.1	431.4	431.1	430.5	429.0
7.5°	462.5	463.7	459.0	451.8	442.9	432.9	423.4	414.5	410.3	407.1	407.1
10°	480.6	481.8	472.3	459.6	441.8	421.3	398.8	378.3	362.3	354.9	353.1
12.5°	502.2	502.8	487.1	464.9	435.5	396.1	348.1	303.3	272.2	257.9	256.5
15°	526.0	521.8	501.1	467.0	417.7	344.2	261.2	206.4	174.0	164.5	168.1
17.5°	550.0	542.3	511.7	463.7	377.7	261.2	175.5	140.8	130.8	128.1	128.1
20°	572.5	561.8	519.4	449.5	308.3	180.0	130.2	121.9	120.1	118.3	118.6
22.5°	595.0	578.7	526.3	417.7	229.8	128.7	116.5	113.9	111.5	109.1	108.8
25°	617.0	594.5	528.9	359.0	156.5	110.6	106.4	102.9	98.1	95.5	94.9
27.5°	639.8	613.4	527.2	284.9	114.1	99.0	94.9	89.8	84.2	79.5	79.5
30°	683.7	649.6	520.9	204.9	96.1	87.2	81.8	73.8	67.6	62.9	62.6
32.5°	743.6	696.7	499.6	144.1	85.4	76.8	68.8	59.9	53.4	49.8	49.8
35°	797.0	744.2	459.6	106.1	76.8	66.7	56.9	48.3	43.3	40.9	40.0
37.5°	878.2	813.6	404.4	86.3	68.5	57.8	47.7	39.7	35.6	33.8	33.8
40°	1000.0	898.4	336.8	75.6	60.5	49.2	39.7	33.5	30.2	28.2	28.2
42.5°	1151.3	1002.1	268.3	67.9	53.1	42.4	33.2	28.5	25.5	24.0	23.7
45°	1341.6	1111.5	206.7	60.8	47.1	36.2	28.2	24.0	21.1	20.2	20.5
47.5°	1540.2	1207.9	160.1	54.6	40.9	30.5	24.0	20.8	18.7	17.5	17.5
50°	1709.8	1274.3	121.6	47.4	36.2	25.8	21.1	18.7	16.9	16.3	16.0
52.5°	1851.6	1293.6	93.1	41.2	31.7	22.2	18.7	16.9	15.4	14.5	14.5
55°	1972.2	1276.7	72.9	34.7	26.7	19.3	16.6	15.1	13.3	12.5	12.2
57.5°	2042.8	1222.4	55.7	28.8	21.6	16.0	14.5	12.7	10.7	9.2	9.2
60°	2078.4	1143.5	42.7	23.7	16.6	12.7	11.9	9.5	7.4	6.2	5.9
62.5°	2035.7	1038.9	32.3	18.7	12.5	9.5	8.0	6.8	4.7	3.6	3.6
63°	2009.3	1008.6	31.1	17.8	11.6	8.9	7.4	6.2	4.2	3.3	3.0
65°	1831.7	876.7	25.5	14.2	9.2	6.2	5.0	4.4	3.0	1.5	1.2
67.5°	1454.6	670.7	20.2	10.7	6.5	4.4	3.0	2.7	0.9	0.0	0.0
70°	983.4	433.2	15.7	7.7	4.4	2.7	1.5	1.2	0.3	0.0	0.0
72.5°	512.9	222.1	12.2	5.6	2.7	1.8	0.9	0.3	0.0	0.0	0.0
75°	181.4	75.6	8.9	3.6	1.8	0.9	0.3	0.0	0.0	0.0	0.0
77.5°	54.8	28.2	5.6	2.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	19.3	10.4	3.3	1.8	0.9	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	5.0	2.1	1.5	0.9	0.3	0.0	0.0	0.0	0.0	0.0
85°	5.3	3.3	1.8	1.5	0.9	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.4	1.8	1.5	1.2	0.6	0.3	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)